



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/723,252
				Filing Date	November 26, 2003
				First Named Inventor	Brian C. Demsky, et al.
				Art Unit	2171
Sheet	1	of	8	Examiner Name	Unassigned
				Attorney Docket Number	MIS-00401

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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BPB	A	US 2004/0015876 A1	01/22/2004	Applin	
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		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
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Examiner Signature	<i>Byrne P. Ponz</i>	Date Considered	6/05/04
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NON-PATENT LITERATURE DOCUMENTS			
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BDB	B	JONATHAN D. BRIGHT, et al., On-line Error Monitoring for Several Data Structures, AT&T Bell Laboratories, Murray Hill, New Jersey 07974, Computer Science Department, Johns Hopkins University, Baltimore, Maryland 21218, 10 pages.	<input type="checkbox"/>
	C	STEFANO PORCARELLI, et al., Tuning of database audits to improve scheduled maintenance in communication systems, Univ. of Pisa, Computer Engineering Dep., Via Diotisalvi 2, I-56126, Pisa, Italy, Stefano.porcarelli@guest.cnuce.cnr.it ; IEI/CNR, Via Moruzzi 1, I-56100, Pisa, Italy { digiandomenico , chokra }@iei.pi.cnr.it; Univ. of Firenze, Dip. Sistemi e Informatica, V. Lombroso 6/17, I-50134, Firenze, Italy, andrea.bondavalli@cnuce.cnr.it , 10 pages.	<input type="checkbox"/>
	D	JIM GRAY, et al., The Recovery Manager of the System R Database Manager, Computing Surveys, vol. 13, No. 2, June 1981, pages 223-242.	<input type="checkbox"/>
	E	P.J. Plauger, Chocolate, March 1994, Embedded Systems Programming 81, 3 pages.	<input type="checkbox"/>
	F	MICHAEL SANNELLA, et al., Multi-way Versus One-way Constraints in User Interfaces: Experience with the DeltaBlue Algorithm; Technical Report 92-07-05a, Dept. of Computer Science and Engineering, University of Washington, May 1993, 38 pages.	<input type="checkbox"/>
	G	CHUNG-CHI JIM LI, et al., Local Concurrent Error Detection and Correction in Data Structures Using Virtual Backpointers, IEEE Transactions on Computers, Vol. 38, No. 11, November 1989, pages 1481-1482.	<input type="checkbox"/>
	H	DAVID GARLAN, et al., Model-based Adaptation for Self-Healing Systems, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA USA, garland@cs.cmu.edu , 6 pages.	<input type="checkbox"/>
▽	I	JONATHAN D. BRIGHT, et al., Checking the Integrity of Trees, 10 pages.	<input type="checkbox"/>

Examiner Signature	<i>Bryan P. Porizzo</i>	Date Considered	6/5/07
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BPP	J	G. HAUGK, et al., Maintenance Capabilities, AT&T Technical Journal, Vol. 64, No. 6, July-August 1985, pages 1385-1416.	<input type="checkbox"/>
	K	SAMIHA MOURAD, et al., On the Reliability of the IBM MVS/XA Operating System, Concise Papers, IEEE Transactions on Software Engineering, Vol. SE-13, No. 10, October 1987, pages 1135-1139.	<input type="checkbox"/>
	L	ROBERT E. STROM, et al., Typestate: A Programming Language Concept for enhancing Software Reliability, IEEE Transactions on Software Engineering, Vol. SE-12, No. 1, January 1986, pages 157-171.	<input type="checkbox"/>
	M	DAVID J. TAYLOR, et al., Principles of Data Structure Error Correction, IEEE Transactions on Computers, Vol. C-31, No. 7, July 1982, pages 602-608.	<input type="checkbox"/>
	N	MANUVIR DAS, et al., ESP: Path-Sensitive Program Verification in Polynomial Time, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 57-68.	<input type="checkbox"/>
	O	DAVID PATTERSON, et al., Recovery Oriented Computing (ROC): Motivation, Definition, Techniques, and Case Studies, Computer Science Technical Report UCS/CSD-02-1175, U.C. Berkeley, march 15, 2002, 16 pages.	<input type="checkbox"/>
	P	Neeraj K. Gupta, et al., Auditdraw: Generating Audits the FAST Way, pages 1-10.	<input type="checkbox"/>
7	Q	STEFANO CERI, et al., automatic Generation of Production Rules for Integrity Maintenance, ACM Transactions on Database Systems, Vol. 19, No. 3, September 1994, pages 367-422.	<input type="checkbox"/>

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BDB	R	AARON B. BROWN, et al., Undo for Operators: Building an Undoable E-mail Store, University of California, Berkeley, EECS, Computer Science Division, 387 Soda Hall, #1776, Berkeley, CA, 94720-1776, USA {abrown, patterson}@cs.berkeley.edu, June 2003, 14 pages.	<input type="checkbox"/>	
	S	GEORGE CANDEA, et al., Recursive Restartability: Turning the Reboot Sledgehammer into a Scalpel, Appears in Proceedings of the 8 th Workshop on Hot Topics in Operating Systems (HotOS-VIII), May, 2001, 6 pages.	<input type="checkbox"/>	
	T	STEFANO CERI, et al., Deriving Production Rules for Constraint Maintenance, Proc. of 1990 VLDB Conference, pages 566-577.	<input type="checkbox"/>	
	U	DAVID G. CLARKE, et al., Ownership Types for Flexible Alias Protection, Microsoft Research Institute, Macquarie University, Sydney, Australia {clad, potter, kjx}@mri.mq.edu.au, 17 pages.	<input type="checkbox"/>	
	V	SUSAN D. URBAN, et al., Constraint Analysis: A Design process for Specifying Operations on Objects, IEEE Transactions on Knowledge and Data Engineering, Vol. 2, No. 4, December 1990, pages 391-400.	<input type="checkbox"/>	
	W	JAMES C. CORBETT, et al., Bandera: Extracting Finite-state models from java Source Code, University of Hawai'i Department of Information, and Computer Science, Honolulu, HI 96822, Corbett@hawaii.edu, 10 pages.	<input type="checkbox"/>	
	X	MARTIN C. RINARD, Credible Compilation, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, March 10, 1999, 38 pages.	<input type="checkbox"/>	
	Y	JAMES R. LARUS, et al., EEL: Machine-Independent Executable Editing, Computer Sciences Department, University of Wisconsin-Madison, 1210 West Dayton Street, Madison, WI 53706, USA, {larus, schnarr}@cs.wisc.edu., pages 291-300.	<input type="checkbox"/>	

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BPP	Z	MICHAEL d. ERNST, et al., Quickly Detecting Relevant Program Invariants, University of Washington Technical Report UW-CSE-99-11-01, November 15, 1999, 12 pages.	<input type="checkbox"/>
	AA	TIMOTHY GRIFFIN, et al., Generating Update Constraints from PRL5.0 Specifications, AT&T Bell laboratories, July 12, 1996, 10 pages.	<input type="checkbox"/>
	AB	BRIAN DEMSKY, et al., Role-Based Exploration of Object-Oriented Programs, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, bdemsky@mit.edu , 12 pages.	<input type="checkbox"/>
	AC	DANIEL JACKSON, Alloy: A Lightweight Object Modelling Notation, Laboratory for Computer Science, Massachusetts Institute of Technology, November 27, 2001, 32 pages.	<input type="checkbox"/>
	AD	GREGOR KICZALES, et al., Aspect-Oriented programming, June 1997, 25 pages.	<input type="checkbox"/>
	AE	Abstract – VIKTOR KUNCAK, et al., Role Analysis, POPL '02, Jan. 16-18, 2002, Portland, OR USA; 16 pages.	<input type="checkbox"/>
	AF	DAVID A. LADD, et al., Two Application Languages in Software Production, AT&T Bell Laboratories, 9 pages.	<input type="checkbox"/>
	AG	CHRISTIAN NENTWICH, et al., consistency Management with Repair Actions, Department of Computer Science, University College London, Gower Street, London WC1E 6BT, UK {c.nentwich, w.emmerich,a.finkelstein}@cs.ucl.ac.uk, 10 pages.	<input type="checkbox"/>

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803	AH	SUSAN S. BRILLIANT, et al., Analysis of Faults I a Multi-Version Software Experiment, Department of Computer Science, University of Virginia, Charlottesville, Virginia 22903, 36 pages.	<input type="checkbox"/>
	AI	CHANDRASEKHAR BOYAPATI, et al., Ownership Types for Safe programming: Preventing Data Races and Deadlocks, OOPSLA '02, November 4-8, 2002, Seattle, Washington, USA, pages 211-230.	<input type="checkbox"/>
	AJ	TIMOTHY L. KAY, et al., Ray Tracing Complex Scenes, Dallas, August 18-22, Volume 20, Number 4, 1986, pages 269-278.	<input type="checkbox"/>
	AK	MARTIN C. RINARD, et al., Credible Compilation with Pointers, Laboratory for computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, {rinard,marinov}@lcs.mit.edu, 20 pages.	<input type="checkbox"/>
	AL	BEVERLY D. SANFORD, et al., Center/Traconautomation system: Development and Evaluation in the Field, 38 th Annual air Traffic Control Association Conference Proceedings. October 1993, pages 238-245.	<input type="checkbox"/>
	AM	EDSGER W. DIJKSTRA, Self-stabilizing Systems in Spite of Distributed Control, Communications of the ACM, November 1974, Volume 17, Number 11, pages 643-644.	<input type="checkbox"/>
	AN	DANIEL JACKSON, et al., Software Analysis: A Roadmap, Future of Software Engineering, Limerick Ireland, 2000, 133-145pages	<input type="checkbox"/>
	AO	SETH HALLEM, et al., A System and Language for Building System-Specific, Static Analyses, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 69-82.	<input type="checkbox"/>

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B993	AP	PETE BROADWELL, et al., Fig A Prototype Tool for Online Verification of Recovery Mechanisms, ICS Shaman Workshop, '02, New York, New York, USA, 7 pages.	<input type="checkbox"/>
	AQ	ALBERT D. ALEXANDROV, et al., Ufo: A Personal Global File System Based on User-Level Extensions to the Operating System, ACM Transactions on Computer Systems, Vol. 16, No. 3, August 1998, pages 207-233.	<input type="checkbox"/>
	AR	JONG-DEOK CHOI, et al., Efficient and Precise Datarace Detection for Multithreaded Object-Oriented Programs, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 258-269	<input type="checkbox"/>
	AS	Abstract – BRIAN DEMSKY, et al., Automatic Data Structure Repair for Self-Healing Systems, First Workshop on Algorithms and Architectures for Self-Managing System, June 2003, 6 pages.	<input type="checkbox"/>
	AT	BRIAN DEMSKY, et al., Static Specification Analysis for Termination of Specification-Based Data Structure Repair, The 14 th IEEE International Symposium of Software Reliability Engineering, Nov. 2003, 14 pages.	<input type="checkbox"/>
	AU	ARTIN RINARD, et al., Acceptability-Oriented Computing, OOPSLA '03, October 26-30, 2003, 19 pages.	<input type="checkbox"/>
	AV	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, OOPSLA '03, October 26-30, 2003, Anaheim, California, USA, 18 pages.	<input type="checkbox"/>
✓	AW	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, MIT LCS Technical Repair 875, December 2002, 10 pages.	<input type="checkbox"/>

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BBB	AY	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, National University of Singapore, Presentation, December 23, 2002, 40 pages.	<input type="checkbox"/>
BBB	AZ	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, Self Managing Systems Workshop, June 11, 2003, 47 pages.	<input type="checkbox"/>
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